

2/14/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipt

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	A/C
PO038983	ACI001-VC	1	1	Net 30	M304S16GA	304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				96	2/12/2018	96		S042196	Stock	2/13/2018	\$ 6.51 / sf	
		2			M304S18GA	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240				256		256		S042197	Stock	2/13/2018	\$ 5.36 / sf	
		3			M304S20GA	304/316 .040 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				96		96		S042198	Stock	2/13/2018	\$ 3.91 / sf	
		5			M6061T6S.040	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf					2/12/2018	96		S042199	Stock	2/13/2018	\$ 3.66 / sf	
		6			M6061T6S.063	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						96		S042200	Stock	2/13/2018	\$ 5.64 / sf	
		7			M6061T6S0.250X6.250	6061-T6S1 Sheet 0.250" Thick Plate x 6.250" Wide				6		6		S042201	Stock	2/13/2018	\$ 16.51 / ft	
		8			M6061T6B1.000X04.000	6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S042202	Stock	2/13/2018	\$ 13.25 / ft	
		9			M6061T6B1.000X8.000	6061T6 Bar 1.000 X 8.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S042203	Stock	2/13/2018	\$ 24.99 / ft	
		10			M6061T6B1.000X06.000	6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				36		36		S042204	Stock	2/13/2018	\$ 19.45 / ft	
		13			M304B1.000X2.500	304 Bar 1.000 X 2.500" MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12		12		S042205	Stock	2/13/2018	\$ 30.26 / ft	

2/14/2018

Print

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit
		14			M304B2.500X02.500	304 Bar 2.500 X 2.500" MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft						13		S042206	Stock	2/13/2018	\$ 80.75 / ft
		15			M304B0.625X4.000	304 Bar 0.625 X 4.000" MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				4		4		S042207	Stock	2/13/2018	\$ 48.11 / ft
		16			MT-4140QT-R1.375	MT-4140 QT-R1.375 : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT				20	2/14/2018	24		S042208	Stock	2/13/2018	\$ 9.39 / ft
		17			M303R0.250	303 Round Bar 0.250"				12	2/12/2018	12		S042209	Stock	2/13/2018	\$ 0.57 / ft
		18			M6061T6S1.250W.120	6061T6 Sq Tube 1.250 X 1.250 X 120W : MATERIAL: 6061-T6 OR 6061- T651/T6510/T6511/T62 SQUARE TUBING AS PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160 receive ft				20		20		S042210	Stock	2/13/2018	\$ 1.46 / ft
		19			M2024T3S.040	2024-T3 .040 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209				48		48		S042211	Stock	2/13/2018	\$ 5.60 / sf
		20			M1018R1.00	1018-1025 Round Bar 1.00 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft				20		18		S042212	Stock	2/13/2018	\$ 2.67 / ft
		21			MT-4140QT-R1.000	AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia.				8		8		S042213	Stock	2/13/2018	\$ 4.79 / ft
		22			MT-4140QT-R0.625	AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia.				90	2/14/2018	90		S042214	Stock	2/13/2018	\$ 2.88 / ft
		24			MT-A513-T- 0.750W0.085	A513 Seamless Alloy Steel Round Tubing 0.75" dia. x 0.085" Wall				20		23		S042215	Stock	2/13/2018	\$ 3.60 / ft
Total:										972		978					

Plex 2/14/2018 10:11 AM Dart Dubois.Pascal

038983



ACIER OUELLETTE INC.

DELIVERY - CLIENT

CO00073284

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page 1

Customer N°

CLI0001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B 3419 3 X 4' X 8' HEAT	252.00	96.00	PI2_\$CLB				96 112 ④				
2 SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 8 X 4' X 8' HEAT	537.60	256.00	PI2_\$CLB		3X		256 112 ③				
3 SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 3 X 4' X 8' HEAT	150.72	96.00	PI2_\$CLB		3x		96 112 ②				
4 ALU SHEET .040 (18G) 6061-T6 (4 X 12) FEAL-0404126061 3121 2 X 4' X 12' HEAT	54.05	96.00	PI2_\$CLB		2x		96 ①				

NIR : R-109516-6

FEB 11 2018

DAS

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ACIER OUELLETTE INC.

DELIVERY - CLIENT

CO00073284

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Instruction F-M

Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Customer N° CL10001056
Date 2018/02/08
Delivery date 2018/02/13
Your order N° 03983
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSIT ST-JEROME LE 12/02											
6 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175	86.50	96.00	PI2_\$CLB								
3 X 4' X 8' HEAT					3X		960				
7 ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245	21.96	6.00	PI2_\$CLB								
1 X 6 1/4" X 72" HEAT SHEAR CUT SHEAR		1.00	UN								

HEAT
6170219

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

DELIVERY - CLIENT

CO00073284

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

3

Credit Terme

Net 30 Days

Customer N° CL10001056
Date 2018/02/08
Delivery date 2018/02/13
Your order N° 03983
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
8 FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 1 X 12' HEAT	57.60	12.00	PL_\$CLB		1X12'		12				
9 FLAT ALU 1 X 8 6061-T6 RANDOM FAL-18-V 2558 1 X 12' HEAT	112.78	12.00	PL_\$CLB		1X12'		12				
TRANSIT ST-JEROME LE 12/02					1X12'						
11 FLAT ALU 1 X 6 6061-T6 RANDOM FAL-16-V 2536 3 X 12' HEAT	253.76	36.00	PL_\$CLB		3X12'		36				

NIR : R-109516-6

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DELIVERY - CLIENT

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

CL10001056

2018/02/08

2018/02/13

03983

Josianne Bourdon

OUELLETTE VALLEYFIELD

Net 30 Days

4

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

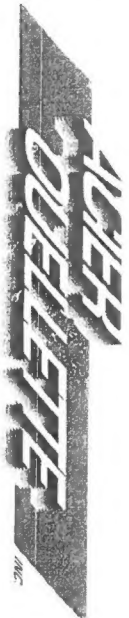
Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
12 FLAT SS 1 X 2 1/2 SS304 RANDOM FSS-1212-V 3492 1 X 12' R/L HEAT AC13459-MM-12/02	102.00	12.00	PL_\$CLB		14 128"		12				
13 SQUARE SS 2 1/2 SS304 NS CSS-212 10059 1 X 12' R/L HEAT AC13460-CF-12/02	255.00	12.00	PL_\$CLB		14 13'10"		13				
14 FLAT SS 5/8 X 4 SS304 RANDOM NS FSS-584-V 8897 1 X 4' HEAT AC13458-GR-12/02	34.00	4.00	PL_\$CLB		14 4'		4				

NIR : R-109516-6

Next Page...

CO00073284



ACIER OUELLETTE INC.

DELIVERY - CLIENT

CO00073284

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J65 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page 5

Credit Terme

Net 30 Days

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Your order N°

03983

Delivery date

2018/02/13

Date

2018/02/08

Customer N°

CL10001056

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
15 ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' HEAT AC13457-VA-12/02	100.98	20.00	PL_\$CLB		14 242		241				
16 ROUND SS 1/4 303 RANDOM RSS-14303-V 5739 1 X 12' R/L HEAT	2.00	12.00	PL_\$CLB		1 X 12'		12				
17 TUBE ALU 1 1/4 X 1 1/4 X .120 6061-T6 R RANDOM TAL-114114120R-V 6312 1 X 20' ROUND CORNER HEAT	11.42	20.00	PL_\$CLB		1 X 20'		20				
18 ALU SHEET .040 (18G) 2024-T3 4B (4 X 12) FEAL-0404122024B 3118 1 X 4' X 12' HEAT	27.02	48.00	PI2_\$CLB		14 4' X 12'		48				

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CU0000/3284

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056
Date 2018/02/08
Delivery date 2018/02/13

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

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Credit Terme

Net 30 Days

Your order N° 03983
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
19 ROUND CR 1 1018 RANDOM RCR-1-V 5292 1 X 20' HEAT	53.40	20.00	PL_\$CLB		1x8'8"		18				
20 ROUND 4140 HEAT TREAT 1 RANDOM R4140-1H-V 4919 1 X 8' HEAT COUPE A LA SCIE SCIE 1	21.36	8.00	PL_\$CLB		1x8'		18 CUT 24'8"				1 X 16'8"
21 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 1 X 10' HEAT	10.43	10.00	PL_\$CLB		1x10' + 4x9'		90				

NIR : R-109516-6

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Next Page...



DELIVERY - CLIENT

CUUUU/2207

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Sablerry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2018/02/08

Delivery date **2018/02/13**

Your order N° 03983

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page 7

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
TRANSIT ST-JEROME LE 12/02										
COUPE A LA SCIE SCIE 1		1.00	UN							
23 TUBE MEC 0.750 OD X .083 NS TME-0750083 10058 1 X 20' R/L OFFER .083 HEAT AC13459-MM-12/02	11.82	20.00	PL_\$PI		14 23		23			

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (lbs) : 2 156.40

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date

Total (\$CAD)



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy C000073496

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

1

Customer N° CLI0001056
Date 2018/02/09
Delivery date 2018/02/13
Your order N° 038983
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C OUT
1 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 4 X 20' R/L 1 X 10' TRANSIT ST-JEROME LE 12/02	93.87	90.00	PL \$CLB		4X 17'10" 14'0"					

Total Weight (lbs) : 93.87

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time
Customer's Signature			
Date			

Total (\$CAD)



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038983

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038983

PO Date: 2/7/18

Due Date: 2/12/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lacelle, LindaPhone:
llacelle@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0084311

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11	M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft	0 ft	24 ft	\$74.41/ft	\$1,785.84
12	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft	0 ft	24 ft	\$20.94/ft	\$502.56
23	MT-4140- B-1.000X6.250		4140 Steel Bar 1.000 X 6.250 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft	\$61.25/ft	\$245.00

Grand Total: \$2,533.40

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO038983

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038983

PO Date: 2/7/18

Due Date: 2/12/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lacelle, LindaPhone:
llacelle@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0084311

REVISES

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11	M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft	0 ft	24 ft	\$74.41/ft	\$1,785.84
12	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft	0 ft	24 ft	\$20.94/ft	\$502.56
23	MT-4140-B- 1.000X6.250		4140 Steel Bar 1.000 X 6.250 : AISI 4140N STEEL BAR PER MIL-S- 5626, AMS 6382, AMS 6349, AMS 6529 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft	\$61.25/ft	\$245.00

2/23/2018

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
25	M304S16GA		304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	2/26/18	96 sf	0 sf	96 sf	\$6.50863/sf	\$624.83
<p>Line Item Note replacement mat'l need credit for line #1 mat'l was not to spec's</p> <p style="text-align: right;">Grand Total: \$3,158.23</p>										
Order Notes										
<p>Procurement Quality Clauses</p> <p>A005 right of entry</p> <p>A012 chemical and physical test report</p> <p>A016 personnel qualification</p> <p>A017 raw material identification (as applicable)</p> <p>A026 certification of material conformance</p> <p>A041 quality management system</p> <p>A042 dart notification by supplier</p> <p>A043 retention of quality documents</p> <p>A048 counterfeit parts avoidance, detection, mitigation and disposition program</p> <p>A049 supplier awareness</p> <p>Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.</p>										

Plex 2/23/18 9:01 AM dart.lavoie.chantal



ACIER OUELLETTE INC.

Order - Sales

Copy

CO00073284

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B 3419 3 X 4' X 8' HEAT: C2700924	252.00	96.00	P12_\$CLB	3.00						
2 SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 8 X 4' X 8' HEAT: 088E	537.60	256.00	P12_\$CLB	8.00						
3 SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 3 X 4' X 8' HEAT: 499F	150.72	96.00	P12_\$CLB	3.00						
4 ALU SHEET .040 (18G) 6061-T6 (4 X 12) FEAL-0404126061 3121 2 X 4' X 12' HEAT: 01/0082345/7	54.05	96.00	P12_\$CLB	2.00						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
935, Boul. du Hiver
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00073284

Customer N°

CL0001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

OART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	R/O	IN	I	S	C
TRANSIT ST-JEROME LE 12/02 6 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 <i>3 X 4' X 8' HEAT: 01/0072091/5</i>	86.50	96.00	P12_\$CLB	0.00 3.00						
7 ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 <i>1 X 6 1/4" X 72" HEAT: 6170219</i>	21.96	6.00	P12_\$CLB	1.00						
SHEAR CUT SHEAR 2 8 FLAT ALU 1 X 4 6061-T6 RANDOM PAL-14-V 2532 <i>1 X 12' HEAT: 3B2163</i>		1.00	UN							
	57.60	12.00	PL_\$CLB	1.00						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
935, Boul. du Hêtre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5896 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00073284

Customer N°

CL10001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Carrier

Net 30 Days

Credit Terme

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
9 FLAT ALU 1 X 8 6061-T6 RANDOM FAL-18-V 2558 <i>1 X 12' HEAT: 384855</i> TRANSIT ST-TERMINALE 12/02	112.78	12.00	PL_\$CLB	1.00						
11 FLAT ALU 1 X 6 6061-T6 RANDOM FAL-16-V 2536	253.76	36.00	PI_\$CLB	0.00 3.00						
<i>3 X 12' HEAT: 37241</i> 12 FLAT SS 1 X 2 172 SS304 RANDOM FSS-1212-V 3492	102.00	12.00	PL_\$CLB	1.00						
<i>1 X 12' R/L HEAT: 265140</i> <i>AC13459-MN-12/02</i> 13 SQUARE SS 2 1/2 SS304 NS CSS-212 10059 <i>1 X 12' R/L HEAT: 56171148</i>	255.00	12.00	PL_\$CLB	1.00						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
935, Boul. du Hâvre
Sarlabeury de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00073284

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CL10001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

4

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
ACI3460-CF-12/02 14 FLAT SS 5/8 X 4 SS304 RANDOM NS FSS-584-V 9897 1 X 4' HEAT 56171702 ACI3458-GR-12/02	34.00	4.00	PL \$CLB	1.00						
15 ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' HEAT 25063196 ACI3457-VA-12/02	100.98	20.00	PL \$CLB	1.00						
16 ROUND SS 1/4 303 RANDOM RSS-14303-V 5739 1 X 12' R/L HEAT BSW8	2.00	12.00	PL \$CLB	1.00						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

Order - Sales

Copy

CO00073284

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CL10001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Carrier

Net 30 Days

Credit Terms

Page

5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
17 TUBE ALU 1 1/4 X 1 1/4 X .120 6061-T6 R RANDOM TAL-114114120R-V 6312	11.42	20.00	PL_\$CLB	1.00						
1 X 20' ROUND CORNER HEAT 385660 ALU SHEET .040 (18G) 2024-T3 48 (4 X 12) FEAL-04041220248 3118	27.02	48.00	PI2_\$CLB	1.00						
1 X 4' X 12' HEAT 18784388 ROUND CR 1 1018 RANDOM RCR-1-V 5292	53.40	20.00	PI1_\$CLB	1.00						
1 X 20' HEAT 141110 ROUND 4140 HEAT TREAT 1 RANDOM R4140-1H-V 4919	21.36	8.00	PI1_\$CLB	1.00						
1 X 8' HEAT 177369										

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
 935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00073284

Customer N° CL10001056
 Date 2018/02/08

Delivery date 2018/02/13

Your order N° 03983

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 6

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	OUT		
								I	S	C
COUPE A LA SCIE SCIE 1		1.00	UN							
21 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 4K10 1 X 10' HEAT (75061935) TRANSIT ST-JEROME LE 12/02 COUPE A LA SCIE SCIE 1	10.43	10.00 -20.00	PL \$CLB	1.00						
23 TUBE MEC 0.750 OD X .083 NS TME-0750083 10058 1 X 20' R/L OFFER .083 HEAT 15C1472 AC13459-MM-12/02	11.82	20.00	PL \$PI	1.00						

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

Order - Sales

Copy

CO00073284

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/02/08

Delivery date

2018/02/13

Your order N°

03983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

7

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	A/O	IN	I	S	C
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$	0.00						

Total Weight (LBS) : 2 156.40

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of Acier Ouellette Inc. until payment is made in full, complete and cashed. All sold materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from bill of goods and the buyer agrees to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within 30 days (3) days with this document enclosed. Any freight charges that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Y M D

Total (\$CAD)

7 617.34

Deposit

0.00

Balance

7 617.34



ACIER OUELLETTE INC.
 935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00073496

Billed to
DART AEROSPACE LTD
 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to
 , Ontario,
 Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Customer N° CL10001056
Date 2018/02/09
Delivery date 2018/02/13
Your order N° 038983
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 4 X 20' R/L Heat 75061935 1 X 10' TRANSIT ST-JEROME LE 12/02 SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE	93.87	90.00	PT_QLB	5.00			4 X 20' 1 X 10'				
				0.00							
				0.00							

Total Weight (LBS): 93.87

NIR : R-109516-6

Conditions :
 All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D

Total (\$CAD) 297.17
Deposit 0.00
Balance 297.17

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1606-17650.250x6.250
DATE FEB 15 2018

PO BATCH NO 028903/14123

MATERIAL CERT REQ'D Yes
QUANTITY RECEIVED 6'
QUANTITY INSPECTED 6'
QUANTITY REJECTED 0

THICKNESS ORDERED 0.250
THICKNESS RECEIVED 0.250
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>QC-A-250/11</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 6170219</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DURA	DURE
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS
11
DATE 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received at

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4025 OR AMS 4027
OR ASTM B209
PART NUMBER: M6061T6S|XXX|THK
WHERE "XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M6061T6S.063
PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
R 2009-09-10
MMP

B	REFORMAT DWG. ADD B209 SPEC (ZN D6-1). REF PAR 08-020A	CP	08.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6S
TITLE	6061-T6 SHEET SPEC
REV. B	SHEET 1 OF 1
SCALE	NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

MILL TEST QUALITY CONTROL CERTIFICATE

ALMAN ALUMINUM INC.

No.85 JingHong Road Nanning Guangxi 530031, China

10

CUSTOMER

SHAPES RESOURCES, INC.

ADDRESS

2118 LEMWOOD AVENUE, 2ND FLOOR, PORT LEE, NJ 07024, USA

PRODUCT TYPE

Extruded Alloy Plate

DATE: March 20, 2017

UNIQUE Lot Number	HEAT Number	Thickness (mm)	Mass (kg)	Act. Thick (mm)	Act. Thick (in)	Temp. (°C)	Temp. (°F)	AI	CA	FE	SI	ZN	CU	NI	CO	Other (ppm)	UTS (ksi)	Yield (ksi)
Standard	Standard	4.300-4.375	1.130-4.400			6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	0.10max.	20ksi	15ksi
Standard	Standard	12.300-12.400	1.500-1.700			6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	0.10max.	20ksi	15ksi
Standard	Standard	25.025-25.050	1.001-2.000			6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	0.10max.	20ksi	15ksi
Standard	Standard	50.025-50.050	2.001-4.000			6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	0.10max.	20ksi	15ksi
Standard	Standard	100.025-100.050	4.001-8.000			6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	0.10max.	20ksi	15ksi
2170300022	6170313	4.300-4.375	1.130-4.400	4.300	0.169	1.900	6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	16.0	12.5
2170300023	6170313	4.300-4.375	1.130-4.400	4.300	0.169	1.900	6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	16.0	12.5
2170300024	6170313	4.300-4.375	1.130-4.400	4.300	0.169	1.900	6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	16.0	12.5
2170300025	6170313	4.300-4.375	1.130-4.400	4.300	0.169	1.900	6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	16.0	12.5
2170300026	6170313	4.300-4.375	1.130-4.400	4.300	0.169	1.900	6061	T651	max. 0.15	0.10-0.15	0.40-0.50	0.7max.	0.10max.	0.10max.	0.10max.	0.10max.	16.0	12.5

ORIGIN OF GOODS: ALMAN ALUMINUM INC.

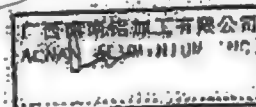
ACTUAL MILL CHEMICAL AND MECHANICAL PROPERTY TEST REPORTS IN IMPERIAL NOMENCLATURE REQUIRED PER 9100.

MATERIAL CONFORMS FOR ALLOY 6061, T651, AS PER Aluminum Association Standards-2008, ASTM-B209-16, AMS QQA 289/11, AMS 9227 IN ALL ASPECTS.

COUNTRY OF MILET AND MANUFACTURE: CHINA

Issued by: 0A51

Reviewed by: 0A51



1/1

NO. 20184000

Version: 0

PAC 14V

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606H6B1.000X04.001
DATE FEB 15 2018

PO BATCH NO 038705/2422

MATERIAL CERT REQD YES
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astin B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 387163</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR E	REI
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS
11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY: _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINIUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/B OR AMS-QQ-A-200/B (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZIN D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV B	
DRAWING NO.		SHEET 1 OF 1	
TITLE		SCALE	
6061-T6 BAR		NTS	
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<http://www.extrudex.com>

MILL TEST

BILL TO	EXTRUDEX ALUMINUM (QUEBEC) INC.	CERT CODE:	1	DIE NUMBER	S 4657	DATE OF SHIPMENT	Dec/06/2017	EXTRUDEX ORDER NO.	212394 - 2	MANIFEST NO.	382626
SHIP TO	ACIER QUELLETTE	CUSTOMER PO	105987	ALLOY	6061	TEMPER	T8	SALESMAN	HOUSE ACCOUNTS		
SO DESCRIPTION	FLAT 4" X 1"	CUSTOMER PART NUMBER	SO04657	PART DESCRIPTION	FLAT 4" X 1"				MADE IN CANADA		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Nov/28/2017	42.80	39.80	10.00	86.0, 86.8, 87.6	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Other
387163	A.11	6061	0.58	0.15	0.2	0.03	0.86	0.07	0	0.01	0.02	0
												0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL Mach 6166100X8000
DATE FEB 15 2018

PO BATCH NO 038983/400

MATERIAL CERT REQD yes
QUANTITY RECEIVED: 12"
QUANTITY INSPECTED 12"
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Astin B 221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	X (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 364855
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DURA	DURE	FE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAV 1
DATE 9 FEB 15 2018

SIGNED OFF BY: _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T65107T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION. REFORMAT NOTES. ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M6061T6B SHEET 1 OF 1			
TITLE SCALE			
6061-T6 BAR NTS			
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<http://www.extrudex.com>

FAL 10

MILL TEST

BILL TO EXTRUDEX ALUMINUM (QUEBEC) INC.	CERT CODE: 1	DIE NUMBER S 5830	DATE OF SHIPMENT Mar/16/2017	EXTRUDEX ORDER NO. 203280 - 1	MANIFEST NO. 367046
SHIP TO ACIER QUELLETTE	CUSTOMER PO 103568	ALLOY 6061	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
SO DESCRIPTION 8" X 1" FLAT BAR	CUSTOMER PART NUMBER DT05830	TEMPER T6	CERTIFICATION MILL TEST ASTM B221-14		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Mar/15/2017	49.80	46.50	12.50	92.8, 92.2, 92.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Co	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
384855	A.11	6061	0.62	0.14	0.21	0.04	0.86		0.07		0.01	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL Mechitec 61111111111111111111
DATE FEB 15 2018

PO BATCH NO 03212121212121212121

MATERIAL CERT REQD YES
QUANTITY RECEIVED 36"
QUANTITY INSPECTED 36"
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astin B221</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y N	<u>Heat # 37241</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT MP ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK

RECORD RESULTS BELOW

	HRC	HRB	DURA	DUPI
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY DAS
11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MAD

B	REMOVE QQ-A-225/8 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	g		
CHECKED	ADS		
MFG APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
REV. B SHEET 1 OF 1			
SCALE NTS			
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ALUMINUM CORP.

FAL-16-1C

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http://www.extrudex.com

CH-41726

48672

MILL TEST

BILL TO EXTRUDEX ALUMINUM (QUEBEC) INC.	CERT CODE: 1	DIE NUMBER S 4558	DATE OF SHIPMENT Sep/07/2017	EXTRUDEX ORDER NO. 208405	MANIFEST NO. 377291
SHIP TO ACHER CAMPI	CUSTOMER PO 106802	ALLOY 6061	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
SO DESCRIPTION 1" X 6" FLAT BAR	CUSTOMER PART NUMBER DI04658	TEMPER T6	PART DESCRIPTION 1" X 6" FLAT BAR	CERTIFICATION MILL TEST ASTM B221-14	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/07/2017	42.80	40.30	10.30	90.9,91.1,91.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Ca	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
37241	A.11	6061	0.576	0.216	0.189	0.05	0.832	0.056	0	0.023	0.019	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohali

Tulsiram Mohali
Quality Control Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 173C4B1.000X2.500
DATE FEB 15 2018

PO BATCH NO 038973/0412

MATERIAL CERT REQD Yes
QUANTITY RECEIVED 12"
QUANTITY INSPECTED 12"
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	(Y)	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	As per A276
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	(Y)	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 265140
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DURA	DUPRE
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if

INSPECTED BY DAS
11
9-89
DATE: FEB 15 2018

SIGNED OFF BY _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and reviewed.

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER:

M304B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

△ EG. 0.5" X 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
BY 2010-11-30
JW

C	ADDED PLATE TO PURCHASE MATERIAL ADDED PLATE FROM 304/316 BAR TO 304/316 BAR/PLATE	MB	10.11.25
B	REFORMAT DING. ADD SPECS (2N DB-1).	CP	08.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN	DATA		
DRAWN	DATA		
CHECKED	DATA		
MFG. APPR.	DATA		
APPROVED	DATA		
DE APPR.	DATA		
DATE	10.11.25		
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DART AEROSPACE LTD. HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B			
TITLE 304/316 BAR/PLATE			
REV. C SHEET 1 OF 1			
SCALE NTS			

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

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Sede: 36100 BOLLANO (Italia) - Via A. Volta, 4
Telephone number : 0039 (0) 444888211

Clienti / Kunden / Clients
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Manufacturer / Producteur

Avviso di Spedimento: D-VI14036370
Unterwiesungsfähigkeit

Ordine nr: 411005009 Stock - Canada
Bestellungsnummer

Tipo di Elaborazione: E-AOD
Herstellungstyp

Certificato nr: MEST61084220147
Prüfungsnr

Conferma ordine nr: B14011348
Bestellungsbestätigung

Marchio di Fabbrica
Zeichen der Unternehmung
Trade mark
Signe de l'usine productrice

Posizione del Collaudatore:
Stempel des Werkstoffprüfingenieur
Inspector's stamp/Place du l'inspecteur



Stato di finitura: Hot rolled Decoiled Annealed Hot rolled
Lieferzustand / Zustand des Materials

Specifiche:
Abmessungen / Dimensions / Dimensions

VISI 304/304L A (1)
AMS 5847 J S30403 A
ASME SA183 2013 B8 CLASS1 (2)
ASME SA479 2013 S30400/03 A (3)
ASTM A262 2013 PRACTICE E
ASTM A320 2011A B8 CLASS1
ASTM A479 2013A S30400/03 A
NACE MR0175 2008 S30400/03 A (8)

AMS 304/304L
AMS-QQ-S-283 C 304/304L A
ASME SA276 2013 S30400/03 A (3)
ASTM A162 2012B S30400/03 A (6)
ASTM A276 2013A S30400/03 A
ASTM A370 2013
ML-G-862 B/1 304/304L
QQ-S-283 F 304/304L A

AMS 5836 H S30400 A
ASME SA182 2013 S30400/03 A (1)
ASME SA320 2013 B8 CLASS1 (4)
ASTM A183 2011A B8 CLASS1
ASTM A314 2008 S30400/03
ASTM A473 2001 S30400/03 (7)
NACE MR0103 2010 S30400/03 A

(6) PROVA
(7) For products machined directly from bar refer to ASME SA478
(8) SECTION II PT.A 2013 EDITION
(9) SECTION II PT.A 2013 EDITION
(10) to ASTM A478
(11) AMSINACE MR0175/ISO 15156-3, second edition 2008-10-15

(1) SECTION II PT.A 2013 EDITION
(2) SECTION II PT.A 2013 EDITION
(3) SECTION II PT.A 2013 EDITION
(4) For products machined directly from bar refer also
(5) Chemical analysis only
(6) Technical circular 12511 Published 2011-08-14

Qualità: 304/304L
Qualitätsstandard

Marchio: AISI
Markenname

Tolleranze: ASTM A484-14 TABLE 5
Toleranzen / Tolerances

Permeabilità: 304/304L
Durchlässigkeit

Pos. nr. Pos. nr. Nr. de pos.	Opzione Option Option	Dimensioni - In Dimensions Dimensions	Lunghezza - In Length Länge	Colore Color Farbe	Pezzi Pieces Stücke	Peso - LB Weight Gewicht	Lotto nr. Lotto Losnr.
0030	Fit	2,5000 x 1,0000	144 / 153	205140		2,584	418504340

TEST ALLO STATO DI FORNITURA
Test der Lieferbedingung Prüfung auf Lieferbedingung Prüfung des Zustands der Lieferung Prüfung des Zustands der Lieferung

TEST	Prova Test Prüfung	°F	Spessore Thickness Dicke	Spessore Thickness Dicke	Resistenza Strength Festigkeit	Resistenza Strength Festigkeit	Allungamento Elongation Dehnung	Sidoneo Hardness Härte	Resistenza Hardness Härte	Durezza Hardness Härte
Valori richiesti / Required values / Benötigte Werte	min max		30		75 115		40		50	140 223
A	12,5	68 L	48		91		55		71	186

TEST	min	max
A Grain size for ASTM E112		6

Mechanical properties according to ASTM A370.

12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 - 34 - 36 - 38 - 40 - 42 - 44 - 46 - 48 - 50 - 52 - 54 - 56 - 58 - 60 - 62 - 64 - 66 - 68 - 70 - 72 - 74 - 76 - 78 - 80 - 82 - 84 - 86 - 88 - 90 - 92 - 94 - 96 - 98 - 100

Analisi chimica

Chemical composition / Chemische Zusammensetzung / Composition chimique

Calcola / Calculate / Berechnen	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max	min - min - min	max - max - max
	C %	0,016	Si %	0,48	Mn %	1,51	Cr %	18,06	Mo %	0,25	Cu %	0,40	Ni %	8,04	Co %	0,125	P %	0,030	S %	0,020	N %	0,050
265140																						

Produced without class II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 1 hour.

Micro and macro etch test: OK

Reduction ratio > 4:1

Intergranular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 01/12/14 Date	Il collaudatore di stabilimento / der Werkstoffprüfingenieur / l'ingegnere d'uso M. Rizzotto	Pagina: 1 di 2
---------------------------	---	----------------

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

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Sede.: 36100 BOLZANO (Italia) - Via A. Volta, 4
Telephone number : 0039 (0) 444066211

Clienti / Kunden / Clients
VALBRUNA CANADA LTD
8724 HOLLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA
Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Marchio/Marken/Trade name

Avviso di Spedizione: D-VI14036570
Lieferungs/Frachtzettel

Ordine nr: 471005009 Stock - Canada
Bestell-/Warenverkehrsbeleg

Tipo di Espansione: E-A00
Ausdehnungsart/Expansionsart

Certificato nr: MES7610942/2014/
Frachtpflichtig

Contenuto ordine nr: E1401184E
Menge/Order Content

Marchio di Valbruna:
Brenn-/Markenname
Trade name
Signe de l'usine: Valbruna

Puntino del Collaudo:
Stempel des Abnahmeprüfzeichens
Inspection stamp/Stamp of inspection



Stato di finitura: Hot rolled Descalced Annealed Hot rolled
Lieferzustand/Finish: Hot rolled Descalced Annealed Hot rolled

Absence of cracks at 20 x magnification after bend test.
Material is OFAS Compliant

Sono state soddisfatte tutte le condizioni richieste
Alle gestellten Anforderungen sind b. Anlage erfüllt
The material has been inspected in accordance with the requirements
Le matériau a été vérifié conforme aux exigences

Controllo antisolfidazione: OK
Verschleißprüfung: Verschleißprüfung durchgeführt
Any other testing/Additional OK
Qualitätssicherung: b. Anlage

Controllo visivo e dimensionale: soddisfa le esigenze
Sichtprüfung und Dimensionierung: den Anforderungen
visual inspection and dimensional check/Dimensionierung
Qualitäts- und dimensionsprüfung

Melting and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive (PED/SEC) Annex 1, Art. 4.3 by TÜV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna S.p.A. shall not be responsible for any improper use of the Product.

Q.C. Reviewed
K11-27-15

Vicenza, 01/12/14 voam Date: 01/12/14	Il collaudatore di stabilimento / der Werksabnahmeprüfer / Works Inspector (L'espert d'usine) M. Rizzotto	Pagina - 2 di 2
---	--	-----------------

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M3-462.500 x 2.500

PO # 08783/24220

DATE FEB 15 2018

MATERIAL CERT REQD YES
 QUANTITY RECEIVED 13'
 QUANTITY INSPECTED 13'
 QUANTITY REJECTED 0

THICKNESS ORDERED 2.500
 THICKNESS RECEIVED 2.500
 SHEET SIZE ORDERED 1/4
 SHEET SIZE RECEIVED 1/4

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	(Y) (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Astir A276</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	(Y) (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 56171148</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW.

	HRC	HRB	DURA	DURE
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY DAS
11

SIGNED OFF BY _____

DATE 9-86 FEB 15 2018

DATE _____

Attach this inspection sheet with the corresponding material cert and remain to be scanned and released.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B | T.TTT | X | WWW.WWWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWWW" = WIDTH IN INCHES

EG. 0.5" X 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS, AND TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR D8-020A	CP	09.07.15
A	NEW ISSUE	PH	05.08.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	PH		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH		
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B		REV. C SHEET 1 OF 1	
TITLE 304/316 BAR/PLATE		SCALE NTS	
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BOLLINGHAUS
STEEL

Bollinghaus Steel, SA
DIN EN ISO 9001:2008
F0V CERT No. 01 100 030458

Abnahmeprüfung/Zugabe/Inspeção Test Certificate/Certif. de Qualidade

EN 10204:2004 / 3.1

No.: / Nr.: / N.º:

0000134897

Unsere interne Verweisung / Our int. Ref / N.º ref int

5600037610 000030

Datum / Date / Data

26.10.2017

Spezifikation / Standards / Normas

TYPE 304/LUNS S30400 and TYPE 304/LUNS S30403 acc. to ASTM A276/A276M-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM A479/A479M-16a, ASTM A320/A320M-16a, ASTM A314-15, ASTM A888-15 Pract. E, AMS QQ-S-783D, AMS 5639J, AMS 6847K, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A479/A479M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order Nr./ Enc.Nr. C110117

Bestell Nr./ Order Nr./ Enc.Nr.

C110117.06

Produktgruppe / Product Group / Grupo Produto

Gewicht / Weight / Peso

Bunde / Bundle / Atados

1.197 lb

01

AI81 304/L SQ 2-1/2"

Werkstoff-Nr.
Material no.
Qualidade 1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma de material

X 2 CrNi 18-9

Beschreibung / Description / Descrição

Stainless steel square bars, hot rolled, heat treated, straightened and pickled.
US DFAR 252.225-7008: MELT SOURCE: United Kingdom / MFG: Portugal.

Referenz-Nr.
Cont.no. / Fichas ref.

Chemische Analyse in % / Chemical composition in % / Análise química em %

58171148

C

0.018

Si

0.270

Mn

1.820

P

0.035

S

0.028

Cr

18.210

Ni

9.070

58171148

Mo

0.460

Co

0.190

Cu

0.460

N

0.070

Ti

0.002

Al

0.005

-

-

Proben Nr.
Test no.
Amostra no.

ASTM E399

Bruchversuch
Impact Test
Resistência

Bruchversuch
Yield point
Tensão de escoamento

Bruchversuch
1% proof
Tensão de 1% de deformação

ASTM A370

Zugversuch
Tensile strength
Tensão de ruptura

Bruchversuch
Reduction of area
Redução de área

Bruchversuch
Reduction of area
Redução de área

(Charpy V)

RP 0.2 %

RP 1.0 %

Rm

AS

4D

[J]

[KJ]

[KJ]

[KJ]

[%]

[%]

224.0

44.8

52.8

60.8

59.0

62.4

72.1

Visuelle Kontrolle
Visual inspection
Inspeção visual

OK

ASTM E10

Werte
Hardness
Dureza

155

[HB]

ASTM A262 Practice E

Korrosionsbeständigkeit
IC Test

Korrosionsbeständigkeit
Corrosion resistance

Korrosionsbeständigkeit
Corrosion resistance

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Korrosionsbeständigkeit
Corrosion resistance

Korrosionsbeständigkeit
Corrosion resistance

Wärmebehandlung
Heat treatment
Tratamento térmico

Wärmebehandlung
Heat treatment
Tratamento térmico

Wärmebehandlung
Heat treatment
Tratamento térmico

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Heat treatment
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Heat treatment
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Wärmebehandlung
Heat treatment
Tratamento térmico

Wärmebehandlung
Heat treatment
Tratamento térmico

Bemerkungen / Remarks / Observações
Country of origin: Portugal. No weld repair done.
Material is free of mercury and radiation contamination.

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.
We confirm that this material meets the specification according to the mentioned standards.
Confirmamos que este material respeita as especificações de acordo com as normas referidas.

P0,1346

NS-

CO

73284

Don't

206126

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1730460-0.625X4.000
DATE FEB 15 2018

PO BATCH NO C298360422

MATERIAL CERT REC'D. yes
QUANTITY RECEIVED: 4"
QUANTITY INSPECTED: 4"
QUANTITY REJECTED: 0

THICKNESS ORDERED 0.625
THICKNESS RECEIVED 0.625
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	As per A276
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 36171702
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT MFG ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (I)

INSPECTED BY: DAS 11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B | T.TTT | W.WW | W.WW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "W.WW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

REVISED
2010-11-30

REV	DESCRIPTION	BY	DATE
C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (2N DB-1).	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		

DART AEROSPACE LTD
HAMKESBURY, ONTARIO, CANADA

DRAWING NO. M304B

TITLE 304/316 BAR/PLATE

REV. C SHEET 1 OF 1

SCALE NTS

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BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. DL 100 030450	Identificação / Designação / Test Certificate / Cert. de Qualidade EN 10204:2004 / 3.1		No.: / No.: / No.: 0000136385																													
	Unsere interne Verweisung / Our int. Ref. / Ref. Int. 5500038183 000190		Datum / Date / Data 07.12.2017																													
Specification / Standards / Normas TYPE 304UNS 630400 and TYPE 304LUNS 530403 acc. to ASTM A276/A276M-16, ASTM A182/A182M-16, ASTM A193/A193M-15, ASTM A479/A479M-16, ASTM A320/A320M-15a, ASTM A314-15, ASTM A392-10 Prod. E, AMS QQ-B-783D, AMS 9638J, AMS 9647K, ASME SA-320/SA-320M, ASME SA-276, ASME SA-182/182M, ASME SA-193/SA-193M, ASME SA-320/SA-320M, NACE MR0175-2015, execution as per ASTM A193/A193M-15.																																
Kunde / Customer / Cliente		Endgültiger Kunde / Final Customer / Cliente Final																														
Bestell Nr./Order Nr./Enc.Nr. C111684		Bestell Nr./Order Nr./Enc.Nr. C111684.3																														
Produktgruppe / Product Group / Grupo Produtos ALSI 304L FLAT 5/8 X 4"		Gewicht / Weight / Peso 1.332 lb		Bundle / Bundle / Alados 01																												
Werkstoff-Nr. Material no. Qualificaçõ 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9																														
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, heat treated, straightened and pickled. US OFAR 252.223-7009; MELT SOURCE: United Kingdom / MFG: Portugal.																																
Chemical Analysis in % / Chemical composition in % / Análise química em % <table border="1"> <tr> <td>C</td> <td>0.018</td> <td>Si</td> <td>0.300</td> <td>Mn</td> <td>1.720</td> <td>P</td> <td>0.034</td> <td>S</td> <td>0.027</td> <td>Cr</td> <td>16.280</td> <td>Ni</td> <td>9.070</td> </tr> <tr> <td>Mo</td> <td>0.470</td> <td>Cu</td> <td>0.254</td> <td>Cu</td> <td>0.520</td> <td>N</td> <td>0.076</td> <td>Ti</td> <td>0.002</td> <td>Al</td> <td>0.005</td> <td>-</td> <td>-</td> </tr> </table>					C	0.018	Si	0.300	Mn	1.720	P	0.034	S	0.027	Cr	16.280	Ni	9.070	Mo	0.470	Cu	0.254	Cu	0.520	N	0.076	Ti	0.002	Al	0.005	-	-
C	0.018	Si	0.300	Mn	1.720	P	0.034	S	0.027	Cr	16.280	Ni	9.070																			
Mo	0.470	Cu	0.254	Cu	0.520	N	0.076	Ti	0.002	Al	0.005	-	-																			
Proben Nr. Test No. Amostra no. 508855.01.01		ASTM E398 Kugelhärteprüfung Impact Test Resistência (Charpy V) [J] 205.0			ASTM A370 Emprego Tensão de ruptura Tensão de ruptura [MPa] 58																											
Visual inspection Inspeção Visual <input checked="" type="checkbox"/> OK		ASTM E10 Hardness Dureza [HB] 195		ASTM A262 Practice E Corrosion resistance Resistência à corrosão <input checked="" type="checkbox"/> OK																												
ASTM A444 Dimensional inspection Inspeção dimensional <input checked="" type="checkbox"/> OK		ASTM E112 Grain size Tamanho de grão 8		ASTM A262 Practice E Corrosion resistance Resistência à corrosão <input checked="" type="checkbox"/> OK																												
Metallographic inspection Test at heat No. Teste de metalografia <input checked="" type="checkbox"/> OK		Metallographic inspection Metalografia <input checked="" type="checkbox"/> OK		Annealed Condition 1000 °F (538 °C) (water quenched)																												
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.																																
Bollinghaus Steel, SA Wir bestätigen, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeta as especificações de acordo com as normas referidas.																																

13.SPG03-10.K

207830
 304L
 7/8 x 4 1/2
 2018

MATERIAL RECEIPT INSPECTION FORM

WATERAL MT-41400 T-61325
DATE FEB 15 2010

[illegible]

MATERIAL RECEIVED	✓ 24"
QUANTITY RECEIVED	24"
QUANTITY INSPECTED	24"
QUANTITY REJECTED	0

[illegible]

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) (N)	
CORROSION	(Y) (N)	
CORRECT GRAIN DIRECTION	(Y) (N)	
CORRECT MATERIAL PER M-DRAWING	(Y) (N)	A193
CORRECT THICKNESS	(Y) (N)	
PHOTO REQUIRED	(Y) (N)	
CORRECT REF # TO LINK CERT	(Y) (N)	Heat # 75063196
CORRECT MATERIAL IDENTIFICATION	(Y) (N)	
CORRECT M# ON THE MATERIAL	(Y) (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y) (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM HARDNESS TEST.
RECORD RESULTS BELOW:

	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

18 INSPECTION DAS
 INSPECTED BY: 11 SIGNED OFF BY: _____
 DATE: 9-80 FEB 15 2018 DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and released.

CERTIFICATE OF COMPLIANCE / CERTIFICAT DE CONFORMITÉ

Order No. / No. Commande	CUSTOMER / CLIENT	Packing slip / No. d'expédition	DATE
Order No. / No. Commande	CUSTOMER / CLIENT	Packing slip / No. d'expédition	DATE
AC00013457	ACIER OUELLETTE INC	L35111-01	12-02-18
MATERIAL ID# / No. MATÉRIEL	GRADE / NUANCE	HEAT TREATMENT / TRAITEMENT THERMIQUE	HEAT / COULEE
2016-2650	AISI 4140	Q.T.S.R / TREMPÉ REVENU - RECUIT DE DÉTENTE (RONDS)	75063196
SHAPE / FORME	SIZE / DIMENSION	SPECIFICATIONS	
Round / Rond	1.3750" in.	ASTM A193/193M-01, A434-90a-BC, A322-07	
PAYS D'ORIGINE:	U.S.A.		

CHEMICAL COMPOSITION / ANALYSE CHIMIQUE

	Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
mini/maxi	0.380 0.430	0.160 0.350	0.750 1.000	0.035
actuel (%):	0.420	0.250	0.860	0.011
	Sulfur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
mini/maxi	0.040	0.800 1.100	0.000 0.250	0.150 0.250
actuel (%):	0.019	0.970	0.130	0.170
	Copper (Cu)	Vanadium (V)	Aluminium (Al)	Tungsten (T)
mini/maxi	0.350	---	---	---
actuel (%):	0.240	0.004	0.026	0.000

MECHANICAL PROPERTIES / PROPRIÉTÉS MÉCANIQUES

Yield strength / Élasticité	Tensile / résistance à la traction	Elongation / allongement (%)	Reduction of area / surface (%)	Hd/dure surface
132,200	146,900	21.0%	59.0%	304 BHN

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentioned specifications. Material is Mercury free, without radioactivity.

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sont conformes aux spécifications. Pas de contact au Mercure, sans radioactivité.

Keith BALL - Branch Manager



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03-GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
05 03 25

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL AL30-15120-A
DATE FEB 14 2018

PO BATCH NO 03878/50421

MATERIAL CERT REQD YES
QUANTITY RECEIVED 256 PZ
QUANTITY INSPECTED 256 PZ
QUANTITY REJECTED 0

THICKNESS ORDERED 0.50
THICKNESS RECEIVED 0.50
SHEET SIZE ORDERED 4X8
SHEET SIZE RECEIVED 4X8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	<u>Astm A240</u>
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	<u>Hest #EC88E</u>
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DURA	DURE	AE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (I)

INSPECTED BY: DAS 11
DATE: 9-00 FEB 14 2018

SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

006001581-5527

495614 2000-1875



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K 1Z3
Canada

METALLURGICAL TEST REPORT

**6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000**

Date: 10/26/2015 Page: 1

certificato 231061 2

Customer: 007035 501

WM order: PM 0069021 14

YOUR ORDER!

781026

[illegible]

PRODUCT D E C R A Y
ASTM#88 STEEL COIL, C. H. ANNEALED & PICKLED, UNS 20400
AST# A240/15b, A480/15, A666/13, ASME SA240/15, SA480/15, SA666/15
CHEM ONLY ON FOLLOWING ASTM: A276/16, A479/16, A486/15, A312/16
CHEM ONLY ON FOLLOWING ASTM: A262/13, A3479/13
UNS 5137 220K MIL-8-509D AMENDS (X GROWN WEARS)
MACE NOV179/150 13156-31209 A. M0103/07/Q03766D-A X MAG FERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS

REMARKS:
Mat'l is Free of Mercury Contamination. No void repairs.
EW 10704;2006 3.1; Hous 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mnt. Sys. in Conf. w/ISO 9001
Material is chemically clean. Mat'l is DPAR Compliant

Product Id	Coll #	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
03088E B	03088E B		.0480	48.0000	20,720	COIL	1	1	74261486

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CN/COUNT

[illegible]

MECHANICAL PROPERTIES

Product	Yds	Coll	1 • • •	4 UTS	200 KST	.24 YB	200 KST	% N-2	% Hard	Hard NB	Tail Hard	Grain Mo.
03088	2	03088	2	100.15	52.12	47.23	86.00	10.00				

Dept. War.
Technical

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:
MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

DART M-NUMBER
IDENTIFIER
1P
2D
3P
4P
6P
7P
8P

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.108375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122 47

D	ADDED GAUGES 0-7.	AJS	15.01.06
C	DEFINED FINISH OPTION (ZN, CP) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN BS)	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D6-1), ADD GAUGE REF (C6-1), REF PAR 00-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD			
HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
SHEET 1 OF 1			
TITLE 304/316 SS SHEET			
SCALE NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD			
THIS DOCUMENT IS UNCLASSIFIED AND NOT TO BE RELEASED FOR ANY PURPOSE OR COMPARISON TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304S206-A
DATE FEB 14 2018

PO BATCH NO 038R3/04219

MATERIAL CERT REQD YES
QUANTITY RECEIVED 96 Pcs
QUANTITY INSPECTED 96 Pcs
QUANTITY REJECTED 0

THICKNESS ORDERED 0.40
THICKNESS RECEIVED 0.40
SHEET SIZE ORDERED 4X8
SHEET SIZE RECEIVED 4X8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Astm A240
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heat # 4941 F
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DURA	DURE	REB
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY: DAS 11
DATE: 9-89 FEB 14 2018

SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P
[GA]

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

GAUGE THICKNESS REFERENCE:

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
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10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.289 - 0.293
0	0.3125	0.301 - 0.325



REV.	DESCRIPTION	DATE
D	ADDED GAUGES 0.7.	15.01.06
C	DEFINED FINISH OPTION (ZN CD) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN BS).	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PART 08-020A	09.06.01
A	NEW ISSUE	01.09.24
DESIGN	DS	
DRAWN	MS	
CHECKED		
MFG. APPR.	M304S	
APPROVED		
DE APPR.		
DATE	15.01.06	

TITLE
304/316 SS SHEET
SCALE
NTS

REVISION NO.
M304S
SHEET 1 OF 1

DESIGN NO.
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DATE
15.01.06

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7012310 28
6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000 49401

3/3

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1X1Z1
Canada

METALLURGICAL TEST REPORT

Date: 9/22/2017 Page: 1

Mail to: 1 98033:00039000

Customer: 007036 501

Ship to

5001, 301

Page 28

Correlation: ASTM A262/15 A, 1999 and -0X

Order No. 0083329 06

your order!
1500625594

10

PRODUCT DESCRIPTION:

REMARKS:

STAINLESS STEEL COIL, C.P. ANNEAL & PICKLED; UNS 30400
ITEM #34016a, #88016b, #55613, #886 SA340/13, #8480/13, #84566/13
CHECK ONLY ON FOLLOWING ASTM: A276/17, #488/16, #317/16
ITEM #5513J ZERK; MIL-8-5050 APPEND (X CROWN HEAD)
INCH #8017/150 15136-312009 A, #R0103/07; Q087550-A X #40 22MM
MIN. SOLUTION ANNEAL TEMP 1500F WATER QUENCHED

EN 10204:2004 3.1 Round 1 & 2 Compliant
Mat'l is Free of Mercury Contamination
Material is Free of Radioactive Contamination
Steel Making Process: TAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mfg. in Conf. w/ISO 9001
Produced & Manufactured in the USA; Mat'l is DPAA Compliant

Product Id	Coll #	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
01499F A	01499F A		.0360	48.0000	15,770	COIL	3	1	160083446

CH E M I C A L A N A L Y S I S C N (Country of Origin) E S (Spain) U S (United States) Z A (South Africa) J P (Japan)

[illegible]

MECHANICAL PROPERTIES

Product Id#	Coil #	I d o i d f	WTS KSI	20C .2% KSI	Y8 KSI	20C ELONG %.2°	% Hard RB	Tall Hard	Oxide No.
014697 A	014697 A	F T	102.00	52.00		53.00	86.00	86.50	10.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK 9/23/2017

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061T6S.040
DATE FEB 15 2018

PO BATCH NO 032983/6042199

MATERIAL CERT REQD YES
QUANTITY RECEIVED 6.6112
QUANTITY INSPECTED 96112
QUANTITY REJECTED 0

THICKNESS ORDERED 0.40
THICKNESS RECEIVED 0.40
SHEET SIZE ORDERED 4X12
SHEET SIZE RECEIVED 4X12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	QQ-A-250/11
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # C1/KC2345/7
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DURA	DURC	FE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 FEB 15 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S-XXX
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
R 2009-09-10

B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1). REF PAR 08-020A	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
REV. B SHEET 1 OF 1			
TITLE 6061-T6 SHEET SPEC			
SCALE NTS			
DATE 09.07.13			
COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS UNCLASSIFIED AND NOT TO BE RELEASED OR DISCLOSED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

AMAG

ROLLING

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 89050631

01 / 1

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2017 05 18

Zertifiziert nach / certified ISO 9001, ISO/TS 16949, ENAS 9100, ISO 14001, HACCP

Auftraggeber / customer:	Bestell Nr. / order no.:	C 73858
	Datum / date:	2017 01 27
Warenempfänger / consignee:	Auftragsbest. Nr. / order confirm no.:	125470
	Datum / date:	2017 01 30
	Lieferschein Nr. / delivery note:	89050631
	Datum / date:	2017 05 30

Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-QQ-A-250/11, 08.1997
Zustand / temper: T6	ASTM B 209 - 14
Dim. / dim.: [inch]: 0,040x48,00x144,00	AMS 4027N, 07.2008
	Cessna CMMP019, Rev. D, 09-07-01
	Cessna CMMP025, Rev. V, 2-20-15
	Sondervorschrift / special terms:

AB-Nr. ID-Nr.	Batch Lot	Größe Size	Grüß-Nr. Grain No.	Werkstoff material	Kollo Alpackno	Gewicht netto weight net	Stk pcs
03	63212/01	00	01/0082345/7	6061	1254700013	2339,085 lbs	87
03	63212/01	00	01/0082345/7	6061	1254700014	2343,474 lbs	87

Chemische Zusammensetzung (%) - Gewichtszusammensetzung (%) - weight composition (%) - weight proportion (%) (OES)											
Order Nr. / order no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Pb	Others Each	Others Total
01/0082345/7	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,40	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	actual	0,87	0,43	0,24	0,13	0,85	0,17	0,05	0,03	0,02	0,03

BNr/Lot	Zustand	Richtung	Tests	UTS	Y6	A2			
Lot/No.	temper	direction		[ksi]	[ksi]	[%]			
			spec. min.	42,0	35,0	10			
			spec. max.	-	-	-			
63212/01	T6	LT	5	from	49,2	43,2	13		
63212/01	T6	LT		to	49,5	43,4	13		

Sonstige Prüfungen / other tests:
Biegeversuch: OK. / Transverse bend test: OK.
Maßkontrolle: OK. / Dimensional Check: OK.
Oberfläche: OK. / Surface inspection: OK.

AMAG rolling GmbH, Postfach 32, A-6282 Ranshofen, Österreich - info@amag.at
AMAG rolling GmbH, P.O. Box 32, A-6282 Ranshofen, Austria - info@amag.at

AK 1861

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M2C24T3S.C410
DATE FEB 15 2018

PO BATCH NO 038483/50421

MATERIAL CERT RECD YES
QUANTITY RECEIVED 48^m
QUANTITY INSPECTED 48^m
QUANTITY REJECTED 0

THICKNESS ORDERED 1040
THICKNESS RECEIVED 1040
SHEET SIZE ORDERED 48x12
SHEET SIZE RECEIVED 48x12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	QC-A-250/4
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Heat # 18784308
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if	
INSPECTED BY	DAS 11	SIGNED OFF BY	
DATE	9 FEB 15 2018	DATE	

Attach this inspection sheet with the corresponding material cert and permit to be scanned and released.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET
SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037
OR ASTM B209

PART NUMBER: M2024T3S XXX THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M2024T3S.063
PREFERRED SIZE: .XXX BY 4FT BY 10FT

B	REFORMAT DWG. ADD ASTM B209 SPEC (2N DA-1), PAR	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.07		
DART AEROSPACE LTD HAMMERSBURY, ONTARIO, CANADA			
DRAWING NO. M2024T3S			
TITLE 2024-T3 SHEET SPEC			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
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RELEASED
2009-09-03
JNP

#3118

FEAL-0404122024K K02547
47580

SHIP TO:

SOLD TO:

KAISER
ALUMINUM
Trentwood Works - Spokane, WA 99215
Phone: (800) 387-2588

2P

CERTIFIED TEST REPORT

Serial Number
4440784

CUSTOMER PO NUMBER: C73420-2	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP UNLOAD: 103751/1	GOVT CONTRACT NUMBER:
KASIR ORDER NO: 1223873-2	SHIP DATE: 20-NOV-2016	ALLOY: 2024	QUANT: SARE	TEMPER: T3
WEIGHT SHIPPED: 3298 LB	QUANTITY: 117 PCS EST.	TRUCKER #: 2003585	GAGE: 0.0400 IN (1.0160 MM)	PRODUCT DESCRIPTION: HT Flat Sheet
			DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2087049: LOT 18784388: 117 pieces: **068710**

Certified Specifications

✓ AMS 4087/RevQ
CMMP 019/RevD

✓ AMS-OC-A-250/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1594
Lot: 18784388

Cast 282

Drop 56

Test Results
Ingot 4

Melted in USA

(ASTM B8/B8E7)
(EN 2002-1)

Tensile: Temper
T3

Dir / # Tests
LT / 2 (Min:Max)

Ultimate KSI (MPa)
66.8 : 67.2
(461 : 463)

Yield KSI (MPa)
45.3 : 45.5
(312 : 314)

Elongation %
16.5 : 17.3

(ASTM E1251)
Chemistry:

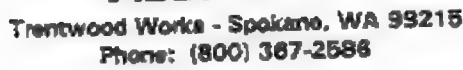
Actual(wt%)

SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
0.07	0.17	4.5	0.62	1.3	0.01	0.12	0.02	0.01	0.01	TOT 0.06

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024											EACH	0.06
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	TOT	0.15
MAX(wt%)	0.60	0.50	4.9	0.9	1.3	0.10	0.25	0.15	0.05	0.05		

Aluminum Remainder



Serial Number
4440764

[illegible]

James G. Thompson

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

MATERIAL RECEIPT INSPECTION FORM

MATERIAL MC617(6TS) 2X4.120
DATE FEB 15 2018

PO/BATCH NO. 088923/0210

MATERIAL CERT REQD Yes
QUANTITY RECEIVED 20"
QUANTITY INSPECTED 20"
QUANTITY REJECTED 0

THICKNESS ORDERED 4.120
THICKNESS RECEIVED 4.120
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	GC-A-201/2
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 385620
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW:

	HRC	HRB	DURA	DURE	A
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS DUROMETER READING					

testers located in the Quality Office

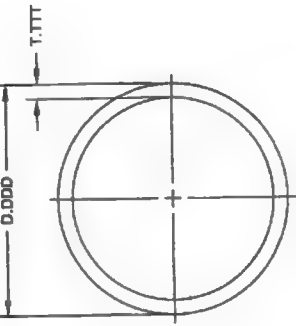
QC 18 INSPECTION

ENGINEERING SIGNOFF (if

INSPECTED BY DAS
11
DATE 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and received.



PURCHASE MATERIAL: 8081-T8/T62/T6510/T6511 SEAMLESS TUBING

SPECIFICATION: $\triangle C$
 WM-I-700/8
 OR QQ-A-200/8 OR QQ-A-225/8
 OR AMS 4080 OR AMS 4082 OR AMS 4083
 OR ASTM B210 OR ASTM B241

PART NUMBER: M6061T6T6.DDDIWT.TTT
 OD WALL

WHERE "D.DDD" = OD IN INCHES
 "T.TTT" = WALL THICKNESS
 EG. 3.6" OD X 0.058 WALL = M6061T6T6.375W0.058
 MATERIAL TOLERANCE: PER ANSI H35.2 $\triangle C$

RELEASED
 2013-07-02

C	COMPLETE REFORMAT. ADDED T6510 & T6511. ADDED AMS 4083. ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	CP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	W		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	13.06.12		

DART AEROSPACE LTD	REV. C
HAWKESBURY, ONTARIO, CANADA	SHEET 1 OF 1
DRAWING NO.	SCALE
M6061T6T	8081-T8 TUBING
TITLE	NTS
DATE	13.06.12

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CAN ART
ALUMINUM EXTRUSION L.P.

#6312-TAL-114114120R-V

TRA-2193

49880

Material Test Report

Ship To:

Manifest: 330665

Ticket:
5561100

Our Order: 439155-1

Cust P.O.: 4500834118-RY003

Die: EH05672

Part: 100018933

Alloy Temper: 6061 T6511

Description: 1.250 x .125

Print Date: 9/30/17

Chemical Composition

Cast/Num	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Maximum	
									Other/Each	Other/Total
386580	0.60	0.19	0.22	0.04	0.83	0.06	0.01	0.02	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
428417	386580	A11	9/25/17	45.64	41.07	9.2

Applicable Specifications: ASTM B221-14

AMS-QQ-A200/8A ASTM B429

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.


Evan Eng, Quality Assurance Manager

TAL 114114125

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

00-73496

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00005079

PART NUMBER/NUMÉRO DE PIÈCE

506255

SOLD TO:
VENDU À:

ACIER OUELLETTE INC.

SHIP TO:
EXPÉDIÉ À:

22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY
SAINT JEROME QC J7Y 4

Invoice Number
T365756

Page 02 of 02

Certification Date
25-APR-2017

Description: 4140/4142 HR ANN BAR ASTM A322

5/8 RD X 20' R/L

HEAT: 75061935

END-QUENCH HARDENABILITY (JOMINY - RC)

1 2 3 4 5 6 7 8 9

56 56 56 56 56 56 55 54 53

24 28 32

42 39 37

Line Total: 426 LB

IDEAL DIAMETER : 5.27 IN GRAIN SIZE : 5 - 8

STRAND CAST REDUCTION RATIO 221.8 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-dessus mentionnées sont transcrits du certificat d'essais du fabricant après vérification de l'exactitude des spécifications inscrites sur le certificat. Nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport respecte les spécifications décrites ci-dessus. The willful rendering of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables, au vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303RO.250
DATE FEB 15 2018

PO / BATCH NO 0381836422

MATERIAL CERT REQD YES
QUANTITY RECEIVED 12"
QUANTITY INSPECTED 12"
QUANTITY REJECTED 0

THICKNESS ORDERED 0.250
THICKNESS RECEIVED 0.250
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	As per A502
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # B5W8
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY: DAS
11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remain to be scanned and reviewed.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A592

PART NUMBER:

M303RD DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M303R0.750

RECEIVED
2010-02-02
MR

B	REFORMAT DWG. ADD SPECS (IN DB-1).	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
DART AEROSPACE LTD 1001 BAYVIEW AVE. SUITE 100 SCARBOROUGH, ONTARIO M1S 5B5 CANADA TEL: (416) 291-1111 FAX: (416) 291-1112 WWW.DARTAEROSPACE.COM			



METALLURGICAL TEST REPORT

Date: 2/23/2012 Page: 1

Steel: 303

WILLIAMS CO

corrosion

was order: PN 0017508 01

PRODUCT DESCRIPTION:

Round-Bar, Annealed, Cold-Draw
ASTM A582/05 IN 10204 3.1, ASTM A484/10
APS 5640U TYPE 1, QQS-764B CONDITION A

REMARKS:

REMARKS:
COMPLIES W/REQUIREMENTS OF DPJJS EU DIRECTIVE 2002.95.
EC. ROHS. EAP+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

[illegible]

MECHANICAL PROPERTIES

Product Id	1 d o l c f	NB No.	.2YS KBI	UTS KBI	RA %	21ng % 2°
BE4162 4	RL	244.00	97.21	110.42	32.93	23.50

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC HESS

2/23/2012

MATERIAL RECEIPT INSPECTION FORM

MATERIAL MIC12R1.00
DATE FEB 15 2018

PO BATCH NO C38785/0421

MATERIAL CERT REQD yes
QUANTITY RECEIVED 18"
QUANTITY INSPECTED 18"
QUANTITY REJECTED 0

THICKNESS ORDERED 1.00
THICKNESS RECEIVED 1.00
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Astm A108
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	(Y) (N)	
CORRECT REF TO LINK CERT	(Y) N	Hard #191110
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	✓ (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	✓ (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DURA	DUP
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY: DAS
11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and received

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
 SPECIFICATION: MIL-S-7097 OR ASTM A108
 PART NUMBER: M1018-RD.DDD WHERE D DDD = DIAMETER IN INCHES
 D/A.

EG. 7/8" ROUND BAR = M1018-R0.875

TOLERANCES:
 PER ASTM A108 AS FOLLOWS:
 SIZE TOLERANCE
 UP TO 1.5" INCL. +0.000/-0.002
 OVER 1.5" TO 2.5" INCL. +0.000/-0.003
 OVER 2.5" TO 4.0" INCL. +0.000/-0.004
 OVER 4.0" TO 6.0" INCL. +0.000/-0.005
 OVER 6.0" TO 8.0" INCL. +0.000/-0.006

PLEASE
 2012-09-24
 [Signature]

B	REFORMAT. ADD ASTM A108, ADD TOLERANCES	CP	12.08.05
A	NEW ISSUE	DS	01.08.12
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	DRAWING NO.	REV. B
MFG. APPR.	CP	M1018-R	SHEET 1 OF 1
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	1018-1025 ROUND BAR	NTS
DATE	12.09.05	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

5292
5260

RCR-T-V
RCR-114-V

79553
49554 CA 47950



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A106

ITEM	DESCRIPCIÓN	RES.	ESTR.
PAR-48569	1018 RED. ESTIRADO 25,40 (1")	978	-0,051
MTP-48737	1018 RED. ESTIRADO 25,40 (1")	998	-0,051
OU-47949	1018 RED. ESTIRADO 7,94 (5/16")	1.052	-0,051
OU-47949	1018 RED. ESTIRADO 17,46 (11/16")	1.010	-0,051
CA-47950	1018 RED. ESTIRADO 25,40 (1")	998	-0,051
CA-47950	1018 RED. ESTIRADO 31,75 (1 1/4")	994	-0,051
VI-48475	1018 RED. ESTIRADO 6,35 (1/4")	1.122	-0,051
PAJ-48144	1018 RED. ESTIRADO 25,40 (1")	1.996	-0,051
PAJ-48144	1018 RED. ESTIRADO 28,58 (1 1/8")	1.012	-0,051
PAR-48143	1018 RED. ESTIRADO 19,05 (3/4")	1.468	-0,051
PAR-48143	1018 RED. ESTIRADO 25,40 (1")	2.992	-0,051
PAR-48143	1018 RED. ESTIRADO 30,16 (1 3/16")	836	-0,051
MTP-48145	1018 RED. ESTIRADO 25,40 (1")	1.996	-0,051
SN-48543	1018 RED. ESTIRADO 25,40 (1")	3.994	-0,051

Composición química de la colada / Chemical Analysis of Heat

MEDIDA	OF	COLADA	%	%	%	%	%	%	%	%	%	%
Measurement		Cast Nr.	C	Cr	Cu	Mn	Mo	N	NI	P	S	Si
25,40	0,00	137149	40655 G	0,170	0,106	0,231	0,610	0,024	0,000	0,111	0,011	0,016
25,40	0,00	141109	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010
7,94	0,00	141112	42134 GM	0,170	0,300	0,290	0,710	0,000	0,007	0,000	0,020	0,008
17,46	0,00	141114	41994 AA	0,157	0,000	0,000	0,600	0,000	0,000	0,000	0,013	0,025
25,40	0,00	141110	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010
31,75	0,00	140119	41892 AG	0,167	0,000	0,169	0,800	0,000	0,006	0,000	0,009	0,021
6,35	0,00	141129	41975 GM	0,160	0,000	0,300	0,710	0,000	0,008	0,000	0,022	0,012
25,40	0,00	141279	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010
28,58	0,00	141280	42186 AG	0,171	0,300	0,000	0,600	0,000	0,004	0,000	0,009	0,023
19,05	0,00	141267	41645 G	0,160	0,300	0,000	0,640	0,000	0,000	0,000	0,013	0,019
25,40	0,00	141269	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010
30,16	0,00	916831	41411 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,000	0,016	0,021
25,40	0,00	141287	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010
25,40	0,00	141414	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospadera.es
www.calibradospadera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Delivery Note Nr.	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER
------------------------------------	---

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma :

Bright steel products. Technical delivery conditions.

MEDEDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm2	Límite elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %	
25,40		137149	40655 G	586,71	565,37	21,86	176,00	57,70
25,40		141109	42055 G	623,30	596,92	28,40	200,00	57,39
7,94		141112	42134 GM	706,60	658,20	10,30	216,00	61,76
17,46		141114	41994 AA	560,10	538,07	19,94	180,00	60,88
25,40		141110	42055 G	623,30	596,92	28,40	200,00	57,39
31,75		140119	41892 AG	571,60	542,70	34,68	180,00	58,35
6,35		141129	41975 GM	670,93	637,52	8,10	190,00	62,71
25,40		141279	42055 G	623,30	596,92	28,40	200,00	57,39
28,58		141280	42186 AG	541,06	518,47	14,54	156,00	56,31
19,05		141267	41645 G	632,89	593,23	19,38	200,00	55,28
25,40		141269	42055 G	623,30	596,92	28,40	200,00	57,39
30,16		916831	41411 AG	551,06	525,36	21,06	165,00	59,43
25,40		141287	42055 G	623,30	596,92	28,40	200,00	57,39
25,40		141414	42055 G	623,30	596,92	28,40	200,00	57,39

Calidad Superficial

DESCRIPCIÓN Description	OF	Clas EN 10277-1
1018 RED. ESTIRADO 25,40 (1")	137149	2
1018 RED. ESTIRADO 25,40 (1")	141109	2
1018 RED. ESTIRADO 7,94 (5/16")	141112	2
1018 RED. ESTIRADO 17,46 (11/16")	141114	2
1018 RED. ESTIRADO 25,40 (1")	141110	2
1018 RED. ESTIRADO 31,75 (1 1/4")	140119	2
1018 RED. ESTIRADO 6,35 (1/4")	141129	2
1018 RED. ESTIRADO 25,40 (1")	141279	2
1018 RED. ESTIRADO 28,58 (1 1/8")	141280	2
1018 RED. ESTIRADO 19,05 (3/4")	141267	2
1018 RED. ESTIRADO 25,40 (1")	141269	2
1018 RED. ESTIRADO 30,16 (1 3/16")	916831	2
1018 RED. ESTIRADO 25,40 (1")	141287	2
1018 RED. ESTIRADO 25,40 (1")	141414	2

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 23/11/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008
www.tuv.com
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL MT-4140QT-R1.CC
DATE FEB 15 2018

PO # 183504221

MATERIAL CERT REQ'D YES
QUANTITY RECEIVED 8'
QUANTITY INSPECTED 8'
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR Check Y/N	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	(Y) N	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	A352
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 177569
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF

INSPECTED BY DAS
11
DATE 9-89 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and re-released



CERTIFIED MILL TEST REPORT

Allen Steel Test Lab
495 East Street
Altoona, PA 16801-2613
(814) 943-4400 EXT 2400
(814) 943-4411 (FAX)

BILL TO	BUYER TO
Ball's Steel Corporation 12231 Old Mill Road Oak Park, MO 65221	Ernst Steel Corporation 4750 North Main Street P.O. Box 10000 Oak Park, MO 65217
Job No. 08251217	Order No. 12345678
ASD Ord No. 87317	Customer Ref. 12345
ASD Ord Date 12/1/08	ASTM A 36/A 36M
Spec. Ref. 201-12345	Spec. Date 12/1/08
Heat Number 12345678	Spec. Time 12/1/08

Heat Number	C	Mn	P	S	Si	Fe	Al	As	Se	Co	Cr	Cu	Nb	Ni	N	O	Other
12345678	0.01	0.25	0.01	0.01	0.25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

MECHANICAL PROPERTIES

Heat Number	Yield	Tensile	Elong.	Reduc.	Charpy	Impact
12345678	35	55	20	40	10	10

Heat Number	12345678
Spec. Ref.	201-12345
Spec. Date	12/1/08
Spec. Time	12/1/08
Spec. Location	12345
Spec. Method	12345
Spec. Results	12345

Heat Number	12345678
Spec. Ref.	201-12345
Spec. Date	12/1/08
Spec. Time	12/1/08
Spec. Location	12345
Spec. Method	12345
Spec. Results	12345

Heat Number	12345678
Spec. Ref.	201-12345
Spec. Date	12/1/08
Spec. Time	12/1/08
Spec. Location	12345
Spec. Method	12345
Spec. Results	12345

EN 10204:2004-3.1

Eaton Steel Bar Company Inspection Certificate 1686880

Customer		Ship Date		Customer PO		Item		Customer Item		Item Description	
22244		13-Dec-2017		628346		11142 (AV 005		448295		1 HM HD 4140V2MM 24mm SQ OTSF FG MST	

All Bundles listed below were produced using steel from Heat 177569 issued by ALTON STEEL and were completed from Eaton Steel Job 60517.

Chemical	Description	Value	Units	Chemical	Description	Value	Units
C	Carbon	0.41000	PMGT	TENSILE PSI	Tensile Strength in PSI Units	148100	PSI
Mn	Manganese	0.59000	PMGT	YIELD PSI	Yield Strength in PSI Units	138000	PSI
P	Phosphorus	0.01300	PMGT	PERCENT ELONGATION	Percent Elongation	17.00	PERCENT
S	Sulfur	0.02000	PMGT	PERCENT REACTION IN AREA	Percent Reaction in Area	51.0	PERCENT
Si	Silicon	0.23000	PMGT	BRINELL SURFACE	Brinell Surface	271.0	BRINELL
Ni	Nickel	0.00900	PMGT	DESCRIPTION	Description	Value	Units
Cr	Chromium	0.64700	PMGT	TEMPER TEMP °F	Temper Temp in Fahrenheit	500 - 2500	DEGT
Mo	Molybdenum	0.15300	PMGT	AUSTENITIC TEMP °F	Austenitic Temp in Fahrenheit	1620 - 1700	DEGT
Al	Aluminum	0.00300	PMGT	8% TEMP °F	Stress Relief Temp in Fahrenheit	500 - 2300	DEGT
Cu	Copper	0.02100	PMGT	MAGNETISM IN GAUSS	Magnetism in Gauss	D - 20	GAUSS
V	Vanadium	0.00300	PMGT	TIME AT TEMPERATURE	Time at Temperature	Report	PMGT
Co	Cobalt	0.01100	PMGT	QUENCH MEDIA REQUIREMENTS	Quench Media Requirements	CE-2717180	PMGT
N	Nitrogen	0.01300	PMGT	CERT STRESS TEST	Cert Stress Test	CON7029X5	PMGT
P+S	Element Sum Limit	4.91000	PMGT	QUENCH & TEMPER	Quench & Temper	15700	PMGT
TX	Steel Diameter	Value	Units	DESCRIPTION	Description	Value	Units
TX	Report stress test results.	Value	Units	GRADE #1	Grade #1	CON7029X5	PMGT
TX	DESCRIPTION	Value	Units	Carbon & Alloy Steel Bars and Quench Req	Carbon & Alloy Steel Bars and Quench Req	CON7029X5	PMGT
TX	Diameter	Value	Units	Steel Bars, Alloy, Standard Grades	Steel Bars, Alloy, Standard Grades	CON7029X5	PMGT
TX	DESCRIPTION	Value	Units	ASTM A312-13	ASTM A312-13	CON7029X5	PMGT
TX	1/16 inch from Quenched End	Value	Units	ASTM A312-13	ASTM A312-13	CON7029X5	PMGT
TX	2/16 inch from Quenched End	Value	Units	STRUCTURE	Structure	CON7029X5	PMGT
TX	3/16 inch from Quenched End	Value	Units	PERCENT TM	Percent Tempered Martensite	50 - 100	PERCENT
TX	4/16 inch from Quenched End	Value	Units	REPORTED MICROSTRUCTURE	Reported Microstructure	2445616	PMGT
TX	5/16 inch from Quenched End	Value	Units	Tag Number	Tag Number	2975 105	PMGT
TX	6/16 inch from Quenched End	Value	Units	022-2159147	022-2159147	2445616	PMGT
TX	7/16 inch from Quenched End	Value	Units				PMGT
TX	8/16 inch from Quenched End	Value	Units				PMGT
TX	9/16 inch from Quenched End	Value	Units				PMGT
TX	10/16 inch from Quenched End	Value	Units				PMGT
TX	11/16 inch from Quenched End	Value	Units				PMGT
TX	12/16 inch from Quenched End	Value	Units				PMGT
TX	13/16 inch from Quenched End	Value	Units				PMGT
TX	14/16 inch from Quenched End	Value	Units				PMGT
TX	15/16 inch from Quenched End	Value	Units				PMGT
TX	16/16 inch from Quenched End	Value	Units				PMGT
TX	17/16 inch from Quenched End	Value	Units				PMGT
TX	18/16 inch from Quenched End	Value	Units				PMGT
TX	19/16 inch from Quenched End	Value	Units				PMGT
TX	20/16 inch from Quenched End	Value	Units				PMGT
TX	21/16 inch from Quenched End	Value	Units				PMGT
TX	22/16 inch from Quenched End	Value	Units				PMGT
TX	23/16 inch from Quenched End	Value	Units				PMGT
TX	24/16 inch from Quenched End	Value	Units				PMGT
TX	25/16 inch from Quenched End	Value	Units				PMGT
TX	26/16 inch from Quenched End	Value	Units				PMGT
TX	27/16 inch from Quenched End	Value	Units				PMGT
TX	28/16 inch from Quenched End	Value	Units				PMGT
TX	29/16 inch from Quenched End	Value	Units				PMGT
TX	30/16 inch from Quenched End	Value	Units				PMGT
TX	31/16 inch from Quenched End	Value	Units				PMGT
TX	32/16 inch from Quenched End	Value	Units				PMGT

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Backlogs with Eaton Steel: 100% of the steel grade, heat, purchase order number when applicable, part number, product description and grade. Material produced in accordance with Eaton Steel's Quality Management System dated 11/21/2016.

Created on 13-Dec-2017
Thomas Stuber, Corporate Metallurgist

10221 Capital Avenue, Oak Park, IL 60327 USA
Tel: 246-398-3134
Fax: 246-398-1434
http://www.eatonsteel.com

Page 1 of 1
422637



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03-GRADE-B7 / -A29-03 / -A322-91 OR

UNS# - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA

EG. $\frac{7}{8}$ " ROUND BAR = M4140H-R0.875

RELEASED
05 05 15 #

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL MT-414CCT-RC.625
DATE FEB 15 2018

PO / BATCH NO. 088923/54221

MATERIAL CERT REQD Yes
QUANTITY RECEIVED 90'
QUANTITY INSPECTED 90'
QUANTITY REJECTED 0

THICKNESS ORDERED 0.625
THICKNESS RECEIVED 0.625
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	929
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 75061935
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK

RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR B
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (I)

INSPECTED BY DAS
11
DATE 9-86 FEB 15 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and return to be scanned and reviewed



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03-GRADE-B7 / A29-03 / A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA

EG. $\frac{7}{8}$ " ROUND BAR = M4140H-R0.875

RELEASED
05 03 75 #

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CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
25-APR-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T365756

AC00005079
PART NUMBER/NUMÉRO DE PIÈCE
506255

SOLD TO: ACIER QUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER QUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 HR ANN BAR ASTM A322
5/8 RD X 20' R/L
HEAT: 75061935

ITEM: 506255

Line Total: 426 LB

Specifications:
ASTM A322 07
ASTM A29/A29M 11
ASTM A322 13
CAT 1E0024
ASTM A322 91

ASTM A304 05
EN 10204 3.1 04
ASTM E112
ASTM E381

SAE J422
ASTM A304 11
ASTM A255
ASTM A304 02

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.40	0.97	0.007	0.026	0.25	0.23	0.86	0.16
CU	SN	AL	V	NB			
0.21	0.01	0.023	0.002	0.002			

RCPT: R977496

COUNTRY OF ORIGIN : USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrits du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
25-APR-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T365756

AC00005079
PART NUMBER/NUMÉRO DE PIÈCE

506255

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 HR ANN BAR ASTM A322
5/8 RD X 20' R/L
HEAT: 75061935
END-QUENCH HARDENABILITY (JOMINY - RC)

Line Total: 426 LB

ITEM: 506255

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
56	56	56	56	56	56	55	54	53	51	49	47	45	44	44
24	28	32												
42	39	37												

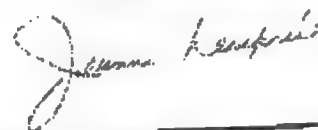
IDEAL DIAMETER : 5.27 IN GRAIN SIZE : 5 - 8

STRAND CAST REDUCTION RATIO 221.8 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL MT-A513-T-0.0750W0.085

PO BATCH NO 038783/504215

DATE FEB 15 2018

MATERIAL CERT REQ'D YES
 QUANTITY RECEIVED 23'
 QUANTITY INSPECTED 23'
 QUANTITY REJECTED 0

THICKNESS ORDERED W0.085
 THICKNESS RECEIVED W0.085
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

DESCRIPTION	NCR Check Y/N	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) (N)	
CORRECT MATERIAL PER M-DRAWING	(Y) (N)	Astm A513 Type 2
CORRECT THICKNESS	(Y) (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) (N)	Heat # 15C1472
CORRECT MATERIAL IDENTIFICATION	(Y) (N)	
CORRECT M# ON THE MATERIAL	(Y) (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRC	HRB	DUR	DUP
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if)

INSPECTED BY DAS 11

SIGNED OFF BY _____

DATE: 9-89 FEB 15 2018

DATE _____

Attach this inspection sheet with the corresponding material cert and remain to be scanned and reviewed.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5
PART NUMBER: MT-A513-T-ID.DDDJW[T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES
WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW RELEASE	17-655	17.09.06	VM	WM
B	TYPE 5 ADDED, TEMPLATE UPDATED	17-790	17.12.13	VM	ML

ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)

MT-A513-T

DESIGNED BY: VM 17/12/13

DRAWN BY: VM 12/13/2017

CHECKED BY: ML 12/20/2017

WFO REVIEW BY: DP 12/20/2017

APPROVED BY: ML 22/02/2017

INITIALS AND DATE

SCALE: 1/8" = 1"

DATE: 22/02/2017

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
DIMENSIONS ARE TO BE INTERPRETED AS HAVING TOLERANCES UNLESS OTHERWISE SPECIFIED

TOLERANCES:
FRACTIONS 1/8
DECIMALS .005
ANGLES 1/2°

SURFACES:
XX 2.5
X 1.25
125 0.005

TITLE: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)

PART NO. MT-A513-T

REV. B

TOOL NO.

SCALE: 1/8" = 1"

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ML

AARISTM LLC

7953 Washington Woods Dr.,
Dayton, OH 45459
Phone: (937) 673-4875 Fax: (702) 926-4128

Material Test Report

Date	WTR No.
4/30/2016	0000058608

TEST CERTIFICATE ACC TO DIN 50048 3.1 B1EN: 10204: 3.1

Customer:

Part Number: 87-15855-17

PO Number: 87-15855

Description: A513T5-14; SRA; DOM; Grade=1020; Category=CARBON WELDED; Round; OD=0.750";
ID=0.584"; (WT=0.083"); Deburnd; Length=240" to 288"

Product: TUBE

Ends: Deburnd

Heat No: 15C1472

Steel Grade: 1020

	DIMENSIONS		TOLERANCE		UOM	QUANTITY		
	MM	IN	-VE	+VE		NUMBER	METER / FT	WEIGHT TON
OD	19.050	0.750	0.0000	0.0050	IN	1	1,696.371	5,244.000
ID	14.834	0.584	0.0050	0.0000	IN	6,096.000 - 7,315.200 MM	240.000 - 288.000 IN	1.660
WT	2.108	0.083	0.0000	0.0000	IN			

CHEMICAL ANALYSIS					MECHANICAL PROPERTIES			
ELEMENTS	UOM	MIN	MAX	MILL	PRODUCT	Y.S Psi	U.T.S Psi	% E
Carbon (C)	%	0.1800	0.2300	0.1900				
Manganese (Mn)	%	0.3000	0.6000	0.4300				
Silicon (Si)	%			0.170				
Aluminum (Al)	%			0.0480				
Phosphorus (P)	%		0.0350	0.0120				
Sulfur (S)	%		0.0350	0.0100				
Chromium (Cr)	%							
Nickel (Ni)	%							
Molybdenum (Mo)	%							
Vanadium (V)	%							
Copper (Cu)	%							
Columbium (Cb)	%							
Calcium (Ca)	%							
Titanium (Ti)	%							
Nitrogen (N)	%							
Boron (B)	%							
Zirconium (Zr)	%							
Antimony (Sb)	%							
Tin (Sn)	%							

	Y.S Psi	U.T.S Psi	% E	HARDNESS HRB
MIN	55,000	65,000	10.00	75.00
MAX				
MILL	67,830	78,010	20.00	80.00
PROD				

Sample Orientation:
Tensile Spec Type:
Gauge Width (MM):
Remarks:

100% EDDY CURRENT TESTING- E309

PASSED

FLATTENING TEST

20% OF OD 1/3% OF OD PASSED

FLARING TEST

15% OF ID PASSED

STRAIGHTNESS

PASSED (1/1000 MM)

Remarks:

Melted In: INDIA

Produced In: INDIA

Product is free of weld repair and has not come in contact with Mercury or any of its components.

We hereby Certify that the material described above conforms to Specification and Purchase Order.

Bill Johnston

Quality Co-ordinator

Any questions, Please email: TestReports@aaris-llc.com

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S.063
DATE: FEB 15 2018

PO BATCH NO: 038983/504220

MATERIAL CERT REC'D: Yes
QUANTITY RECEIVED: 96m
QUANTITY INSPECTED: 96m²
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.63
THICKNESS RECEIVED: 0.63
SHEET SIZE ORDERED: 4x8
SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	QQ-A-250/11
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Header 01/0072091/5
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DJR A	DJR B	WEE
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if req)

INSPECTED BY: DAS
11
DATE: 9-89 FEB 15 2018

SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: ~~2~~ QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DWG. ADD B209 SPEC (2N DB-1).	CP	09.07.13
A	REF PAR 08-020A	DS	01.06.08
REV.	NEW ISSUE	BY	DATE
DESIGN		DESCRIPTION	
DRAWN		DART AEROSPACE LTD	
CHECKED		HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.		M6061T6S	REV. B
APPROVED		TITLE	SHEET 1 OF 1
DE APPR.		6061-T6 SHEET SPEC	SCALE
DATE	09.07.13		NTS

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AMAG

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85150377 01 / 4

Rev.: 0

Seite / page: 1 von / of 2

Datum / date: 2015 11 10

Zertifiziert nach / certified in: ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer:	Bestell Nr. / order no.:	C 70632
	Datum / date:	2015 05 20
Warenempfänger / consignee:	Auftragsbest. Nr. / order confirm no.:	693391
	Datum / date:	2015 05 21
	Lieferschein Nr. / delivery note:	85150377
	Datum / date:	2015 11 30

Produkt / product:	Bedingungen / terms:
Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-QQ-A-250/11, 06.1997
Zustand / temper: T6	ASTM B 209 - 14
Dim. / dim.: [inch]: 0,063x48,00x96,00	AMS 4027N, 07.2008
	Cessna CMMP019, Rev. D, 09-07-01
	Cessna CMMP025, Rev. V, 2-20-15
	Sondervorschrift / special terms:

AB-Poz. ord. item	BNr/Los/Lot Lot/No./Part	Größe/Nr. size/no.	Werkstoff material	Kello packings	Gewicht netto weight net	Stk. pcs.
06	61011/01/00	01/0072091/5	6061	6933910027	2409,612 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910028	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910029	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910030	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910031	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910032	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910033	1560,847 lbs	55

Chemische Zusammensetzung (% Gew.) / Chemical composition (% weight proportion (OES))											
Größe/Nr. size/no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ceash	Ceash Total
01/0072091/5	6061	0,10	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,10	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,68	0,44	0,24	0,12	0,88	0,18	0,06	0,03	0,02	0,03

Zugprüfung LT / tensile test LT									
BNr/Los	Zustand	Richtung	Tests	UTS	YS	AZ ⁹⁰			
Lot/No.	temper	direction		(ksi)	(ksi)	(%)			
			spec. min.	42,0	35,0	10			
			spec. max.	-	-	-			
61011/01	T6	LT	8	from 48,6	42,4	13			
61011/01	T6	LT		to 49,0	42,9	15			

AMAG

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85150377 01 / 4
Rev.: 0
Seite / page: 2 von / of 2
Datum / date: 2015 11 10

Zertifiziert nach / certified to: ISO 9001, ISO/TS 16949, ENAS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests

Biegeversuch: OK / Transverse bend test: OK.
Maßkontrolle: OK / Dimensional Check: OK.
Oberfläche: OK / Surface inspection: OK.

Bemerkungen / notes

Die Dimensionstoleranzen entsprechen ANSI XXX /
As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Aufträge) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUK/SA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HSIFAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

Issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto The Quality Management System arrangements in respect of these supplies comply with the requirements of AUK/SA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HSIFAS/PART3/0771

Agusta Westland approval supplier code V21275

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkstatteinrichtungen / factory specialist

E-Mail / e-mail

Klampfer Josef

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschine erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

